Agricultural and Forest Meteorology, 47 (1989) 373–374
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

CONTENTS VOLUME 47, 1989

Research Papers

A model of transpiration and soil-water balance for a mature oak forest
J. Nizinski and B. Saugier (Paris, France) 1

Meteorology of the tea plant in China: a review
Huang Shoubo (Hangzhou, People's Republic of China) 19

Simulation of greenhouse microclimate produced by earth tube heat exchangers
H.J. Levit, R. Gaspar and R.D. Piacentini (Rosario, Argentina) 31

Destabilization of the lower atmosphere above a forest: a model
C.P.-A. Bourque, P.A. Arp and R.B.B. Dickison (Fredericton, N.B., Canada) and R.E. Mickle (Downsview, Ont., Canada) 49

Short Communication

Calibration of some empirical equations for evaporation and evapotranspiration in Hong Kong
A.W. Jayawardena (Hong Kong) 75

Announcement 83

SPECIAL ISSUE: BIOMETEOROLOGY

Research Papers

Applying Lagrangian fluid mechanics to infer scalar source distributions from concentration profiles in plant canopies
M.R. Raupach (Canberra, A.C.T., Australia) 85

Aerial spore dispersal close to a focus of disease
D.E. Aylor (New Haven, CT, U.S.A.) 109

Detection of temperature ramps and flow structures at a deciduous forest site
R.H. Shaw, K.T. Paw U and W. Gao (Davis, CA, U.S.A.) 123

A relationship between deposition velocity and trajectory reflection probability for use in stochastic Lagrangian dispersion models
J.D. Wilson (Edmonton, Alb., Canada), F.J. Ferrandino (New Haven, CT, U.S.A.) and G.W. Thurtell (Guelph, Ont., Canada) 139

Does atmospheric turbulence have an outer scale?
F.A. Gifford (Oak Ridge, TN, U.S.A.) 155

The deposition of Chernobyl caesium-137 in heavy rain and its persistent uptake by grazing sheep
F.B. Smith (Bracknell, Gt. Britain) 163

Microstructure, density and wetness effects on dry deposition to foliage
P.H. Schuepp (Ste. Anne-de-Bellevue, Que., Canada) 179

The effects of forests and topography on the deposition of sub-micrometer aerosols measured by lead-210 and cesium-137 in soils
W.C. Graustein and K.K. Turekian (New Haven, CT, U.S.A.) 199

Wet, occult and dry deposition of pollutants on forests
M.H. Unsworth and J.C. Wilshaw (Loughborough, Gt. Britain) 221

Simulation of micrometeorology of crops, some methods and their problems, and a few results
J. Goudriaan (Wageningen, The Netherlands) 239

Investigations with a higher-order canopy turbulence model into mean source-sink levels

and bulk canopy resistances
K.T. Paw U. (Davis, CA, U.S.A.) and T.P. Meyers (Oak Ridge, TN, U.S.A.) 259
Spatial and temporal variation of a defoliating plant disease and reduction in yield
F.J. Ferrandino (New Haven, CT, U.S.A.) 273
Importance of weather to the distribution and abundance of introduced adelgid and scale insects
M.S. McClure (Windsor, CT, U.S.A.) 291
Evapotranspiration in a greenhouse-warmed world: a review and a simulation
N.J. Rosenberg, M.S. McKenney (Washington, DC, U.S.A.) and P. Martin (Berkeley, CA, U.S.A.) 303
Anticipating the frequency distribution of precipitation if climate change alters its mean
P.E. Waggoner (New Haven, CT, U.S.A.) 321
Modeling the effects of Amazonian deforestation on regional surface climate: a review
R.E. Dickinson (Boulder, CO, U.S.A.) 339
A tale of ten fallacies: the skeptical enquirer's view of the carbon dioxide/climate controversy
W.E. Reifsnyder (New Haven, CT, U.S.A.) 349

Contents Vol. 47 (1989) 373